New model information

AVR-2313

Integrated Network AV Receiver

DENON

7.2 Channel 4K & 3D Pass Through, Networking Home Theatre Receiver with AirPlay® and powered Zone 2

The Denon AVR-2313 7.2-Channel Integrated Network A/V Receiver sets a new standard in 3D, Blu-ray, game console, and other entertainment device integration with six HDMI inputs and dual HDMI outputs. It features seven discrete 105-watt channels of equal power, dual subwoofer outputs, and multiple high-resolution audio formats for superior surround sound audio performance. It also includes advanced video circuitry that upscales high-definition (HD) signal to 4K (3840 x 2160 pixel) signal. Enhanced by digital network audio/photo streaming capabilities, including support for AirPlay, mp3/WMA/WAV and FLAC HD audio, and Windows 7 compatibility, the AVR-2313 is a solid foundation for your networked home entertainment system.

New Features

- Supports 4K video signals (video upscaling, video passthrough, GUI overlay)
- The plenty of network capabilities and functions allow you to enrich your entertainment world including:
  - AirPlay
  - DLNA 1.5 certified
  - Windows 7 compatible
  - Internet radio
  - Last.fm
  - Photo streaming
  - flickr
  - FLAC HD, High-resolution audio file playback (96 kHz / 24-bit)
- Support new “Denon Remote App” to simplify operation by Android & iOS tablet/smartphone
- Convenient HDMI port on the front for connecting a camcorder or other device
- Front display with large, easy-to-read characters

State-of-the-art Denon Solutions for Maximising Content Quality

- Fully discrete, identical quality and power for all 7 channels (105 W x 7 ch)
- Stable power supply for high-quality sound and picture playback
- Featuring 3D pass-through technology
- Dolby Pro Logic IIz
- Audyssey DSX
- Minimum Signal Path for clear audio and video signal
- High-performance 192kHz/24-bit D/A converters for all channels
- Digitally transmitted Play function for iPod® and iPhone® (via USB) for best sound quality
- Denon’s proprietary Compressed Audio Restorer, to restore sound quality from compressed music sources
- Picture adjust
- Pure Direct

Connectivity & Future-ready Expandability

- Supports HDMI with 4K, 3D, Audio Return Channel, Deep Color, “x.v.Color”, Auto Lipsync and HDMI control function
- 6 x HDMI in (1 on front panel) / 2 x HDMI out (Simultaneous)
- Simultaneous playback on two HDMI outputs
- Power Amp Assign function, for versatility in using the AVR-2313 for different purposes
- Front panel USB input
- Multi room audio (2 zones 2 sources)

Ease-of-Use

- Setup Assistant, providing easy-to-follow setup instructions
- Audyssey Dynamic Volume®, for real-time volume adjustment
- Audyssey DynamicEQ, improves surround effects during low volume levels
- Audyssey MultEQ XT, automatically sets the speakers to suit the room’s listening environment and the speakers’ characteristics
- Comes with simple, easy-to-use remote control handset
- Sleep Timer, set up to 120 minutes in 10-minute increments
- Audio level memory, capable of correcting different signal levels for each input device
- 4 Quick select buttons
- Standby HDMI Pass through
- Auto Standby
- C4 Certified IP Control Capability

Others

- Audio Delay function
- Auto surround mode
- Muting level settings (Full/-40dB/-20dB)
- Variable subwoofer crossover switching
- Lower power consumption at stand-by 0.1 W (Standby)
- Trigger output (150 mA)

AirPlay

Made for iPod iPhone

State-of-the-art Denon Solutions for Maximising Content Quality

• Supports 4K video signals (video upscaling, video passthrough, GUI overlay)

When 4K (3840 x 2160 pixel) video signals are input to the AVR-2313, video passthrough outputs the signals in the same quality to the TV monitor, and GUI overlay displays the menu screen over the 4K video screen. The AVR-2313 is also equipped with a 4K video upscaling circuit that upscales analog signals, standard definition (SD), and high-definition (HD, up to 1080p) signals to a maximum of 3840 x 2160 pixels (4K) and outputs the signals via HDMI. The AVR-2313 provides the video circuitry you need to enjoy high-definition video entertainment into the future.

• Fully discrete, identical quality and power for all 7 channels (105 W x 7 ch)

To faithfully reproduce the original surround sound, each of the AVR-2313's 7 channels is equipped with the same power amp of equal power. Since these power amps also use discrete circuits configured with parts strictly selected for their contribution to high sound quality, rather than with low-cost integrated circuits (ICs), the surround sound playback is of impeccably high quality.

• Featuring 3D pass-through technology

By connecting a 3D-compliant Blu-ray disc player and 3D-compliant TV to the AVR-2313, you will have a 3D home theatre where you can enjoy high-definition sound and video on a level you've never experienced before.

• Dolby Pro Logic IIz

• Audyssey DSX processing

Audyssey DSX extends 5.1-channel and 7.1-channel sound sources to a wider and higher dimension. A sound that is wider to the left and right is achieved by adding a sound source (FWL/FWR) that is wider than the usual placement of the front (FL/FR) speakers, and a greater sense of height in sound space is achieved by adding a sound source (FHL/FHR) in the upper area between the FL (FR) and FWL (FWR) channels.

• Minimum Signal Path for clear audio and video signal

The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback. Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

Connectivity & Future-ready Expandability

• 6 x HDMI in (1 on front panel) / 2 x HDMI out (Simultaneous)

The AVR-2313 is equipped with two HDMI MONITOR outputs. You can connect one output to a projector and the other output to a TV for simultaneous signal outputs.

• Power Amp Assign function, for versatility in using the AVR-2313 for different purposes

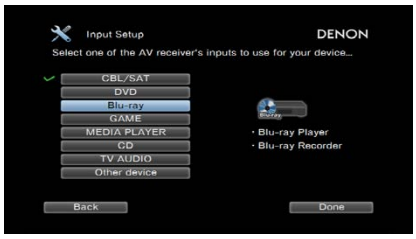
The AVR-2313 supports up to 7.1 channels (FL/ FR/ C/ SL/ SR/ SBL/ SBR/ SW) for surround playback defined by the Blu-ray disc format. To enjoy surround playback with the AVR-2313's Audyssey DSX processing, you can reassign the power amp from the two surround back channels (SBL/SBR) to the two front height channels (FHL/FHR), or to the two front wide channels (FWL/FWR). Or by assigning the SBL/SBR power amp to Zone 2, you can enjoy multi-room audio playback, or to achieve higher-quality sound for 2-channel stereo playback, you can configure the AVR-2313 for front bi-amp operation. These are just some of the ways you can arrange the AVR-2313's amps to suit various listening styles.

Ease-of-use

• Easy operation, Graphical User Interface

• Setup Assistant, providing easy-to-follow setup instructions

First select the language when prompted. Then simply follow the instructions displayed on the TV screen to set up the speakers and so on.



New Remote App

Main Specifications

Power amplifier section	
Rated output	*THD figures are power amp stage values.
Front L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)
Centre	105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W (6 ohms, 1 kHz, THD 0.7%)
Surround L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)
Surround Back L/R	105 W + 105 W (8 ohms, 20 Hz - 20 kHz, THD 0.08 %) 135 W + 135 W (6 ohms, 1 kHz, THD 0.7%)

Preamplifier section	
Input sensitivity/impedance	200 mV / 47 kohms
Frequency response	10 Hz – 100 kHz — +1, –3 dB (DIRECT mode)
S/N Ratio	100 dB (IHF-A weighted, DIRECT mode)

FM section	
Tuning frequency range	87.5 - 108 MHz

General	
Power supply	AC 230 V, 50/60 Hz
Power consumption	600 W (Standby 0.1 W, CEC standby 0.5 W)
Dimensions (W x H x D)	434 x 167 x 379 mm
Weight	10.9 kg

Ports

In	HDMI (Front: 1)	6
	Component (Video)	2
	Composite (video) (front: 1)	4
	Analog Audio (Front: 1)	6
	Digital Audio (Optical)	2
	Digital Audio (Coaxial)	2
Out	HDMI Monitor	2
	Component (Video) Monitor	1
	Composite (Video) Monitor	2
	Audio Preout (7.2ch)	1
	Audio Lineout (L/R)	1
	Audio Preout (Zone2) (L/R)	1
	Phones	1
Others	Network (Ethernet)	1
	iPod / USB (Front)	1
	Setup Mic jack	1
	FM Tuner Antenna	1
	Remote Control (In/Out)	1 / 1
	RC-232C	1
	DC12 V 150 mA MAX. trigger out	1

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D&M Holdings Inc.

D&M Building, 2-1 Nisshin-cho, Kawasaki-ku,
Kawasaki-shi, Kanagawa, 210-8569, Japan
www.denon.com

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